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LIME REPORT 1936-1940



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SECRETARY OF AGRICULTURE

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LIME REPORT—1936-1940

INTRODUCTION

The Pennsylvania Lime Law, Act of June 1, 1915, requires annual registration of all liming materials sold for agricultural purposes. The following information is required to be shown on sacks or attached cards:

- (a) The name of the manufacturer or importer, and the address of his principal office.
- (b) The name of the place where manufactured.
- (c) The brand or trade name of the material.
- (d) The name of the form of the material.
- (e) The net weight, when the material is sold in packages.
- (f) The fineness of the material, if in a ground or powdered form, showing the percentage passing the twenty mesh sieve, the sixty mesh sieve, and the one hundred mesh sieve.
- (g) The minimum per cent contained of, in terms of, oxides of calcium and oxides of magnesium.
- (h) With respect to all burned forms of liming materials, including mixtures of burned and unburned liming materials, statement of the total maximum per cent contained of oxides of calcium and oxides of magnesium, which are combined as carbonates. The information given in the said statement shall be held to be the guaranty of the manufacturer or importer that the goods to which said statement refers are of the kind and quality or composition and fineness so set forth.

The act provides for the collection and analyses of official samples as obtained by Agents throughout the Commonwealth.

The act further provides for the analyses of special samples of liming materials submitted by manufacturers or producers located within the Commonwealth for a fee of \$5 per sample.

Applications for registration are required to be submitted and the registered labeling should correspond with labeling employed on sacks or attached cards.

The registration or license fees are as follows:

New Brands	\$ 5.00
Sales to 1000 tons inclusive	5.00
Over 1000 to 5000 tons inclusive	10.00
Over 5000 tons	20.00

Since the publication of the last Bulletin, namely for the years 1932 to 1935 inclusive, 249 special samples were submitted for analysis with the prescribed fees. The results of these analyses are not included in this report.

During the spring and fall shipping seasons, for the years 1936 to 1940 inclusive, 667 official samples were secured, out of which 567 samples were selected for analysis. At time of sampling the Agents submitted reports showing the information printed on

sacks or attached cards. The 567 samples analyzed represented 169 brands, registered by 95 manufacturers as follows:

CLASSES	BRANDS	SAMPLES
Pulverized Limestone	54	155
Pulverized Oyster Shell	1	2
Artificial Carbonate of Lime	1	3
Hydrated Lime, low magnesia	50	249
Hydrated Lime, high magnesia	17	60
Burned Lime	37	85
Miscellaneous	9	13
Total	169	567

PENNSYLVANIA LIME LAW

Act of June 1, 1915, No. 306, P. L. 678, as amended May 22, 1933—No. 157, P. L. 894

AN ACT

To regulate the sale for agricultural purpose of crushed limestone, lime, gypsum, and related products; defining said products; and prescribing penalties for the violation of this act.

Section 1. Be it enacted, &c., That all liming materials for agricultural purposes, sold, offered, or exposed for sale within this Commonwealth, shall have attached to it or be accompanied in the manner provided in section three thereof, by a plainly printed statement, giving the following information:

Liming
materials sold
for agricultural
purposes to
have statement
attached.

(a) The name of the manufacturer or importer, and the address of his principal office.

Information
required.

(b) The name of the place where manufactured.

(c) The brand or trade name of the material.

(d) The name of the form of the material.

(e) The net weight, when the material is sold in packages.

(f) The fineness of the material, if in a ground or powdered form, showing the percentage passing the twenty mesh sieve, the sixty mesh sieve, and the one hundred mesh sieve.

(g) The minimum per cent contained of, in terms of, oxides of calcium and oxides of magnesium.

(h) With respect to all burned forms of liming materials, including mixtures of burned and unburned liming materials, statement of the total maximum per cent contained of oxides of calcium and oxides of magnesium, which are combined as carbonates. The information given in the said statement shall be held to be the guaranty of the manufacturer or importer that the goods to which said statement refers are of the kind and quality or composition and fineness so set forth.

Guaranty

Section 2. For the purpose of this act, the expression "liming materials for agricultural purposes" means any substances containing calcium or magnesium, or both for use as soil amendments or in soil treatment, or as ingredients or reagents in the preparation of any fungicide or insecticide.

Liming
materials for
agricultural
purposes

Section 3. The statement required by section one of this act shall, in the case of goods sold in package, be plainly printed upon the package, or upon a tag or label fastened thereto, of such quality and in such manner that it shall not be detached in handling, and, in the case of goods sold in bulk the said statement shall be delivered to the purchaser either with the invoice therefor or with the goods.

Labeling of
packages

Section 4. Every manufacturer or importer of liming materials for agricultural purposes shall, on or before

Annual state-
ment of brands

for the first day of January of each year, or before offering them for sale in this Commonwealth, file annually with the Secretary of Agriculture a statement of the names and number of brands of such materials, having distinct trade-names, that he shall offer for sale during the next ensuing calendar year, or remainder thereof, together with a copy of the statement declaring the composition of these several brands of said materials, as required by section one of this act.

Annual affidavit
of weight of
each brand

License fee

Section 5. In addition to the statement required by section four of this act, every manufacturer or importer of any of the materials covered by section one of this act shall on or before the first day of January of each year, or before offering them for sale within this Commonwealth, file annually with the Secretary of Agriculture an affidavit showing, as nearly as practicable, the weight of each brand of said materials sold by him or if the producer or vendor be a firm or corporation, by its managers, officers, and agents, within the Commonwealth, during the last preceding year; and for each brand so sold he shall pay to the Secretary of Agriculture a license fee, according to the weight sold, as follows: For an amount not exceeding one thousand tons, five dollars; for an amount exceeding one thousand tons, but not exceeding five thousand tons, ten dollars; and for an amount exceeding five thousand tons, twenty dollars; and when said fees shall have been paid, and the statements required by section four of this act have been filed with the Secretary of Agriculture, the party or parties who have made such payment, and otherwise complied with the provisions of this act, shall be entitled to sell within the Commonwealth the goods specified in said statement and covered by said fees during the year, or fraction of a year, immediately following said statement. If the manufacturer or importer shall not have made during the preceding year any sales within the Commonwealth, of the aforesaid material of any brand to be offered for sale during the year for which the fee is to be paid, he shall pay for each such brand a fee of five dollars. All moneys so received shall be immediately paid by the Secretary of Agriculture into the State Treasury, for the use of the Commonwealth.

Violations

Penalty

Section 6. Any person or persons, selling, offering, or exposing for sale, any of the materials covered by section one or brand of the same, unless accompanied by the statement required by section one of this act, or, when so accompanied, if the said statements shall be false in any particular, or without having complied with all the foregoing provisions of this act, shall be guilty of a misdemeanor; and on conviction shall be sentenced to pay a fine of not less than ten nor more than fifty dollars for the first offense, and not less than

one hundred dollars for each subsequent offense. It shall be the duty of the Secretary of Agriculture to enforce the provisions of this act; and all penalties, costs, and fines recovered shall be paid to him or his duly authorized agent, and by him shall be immediately paid into the State Treasury, for the use of the Commonwealth.

Enforcement

The Secretary of Agriculture is hereby authorized to revoke any license where it shall be properly ascertained that the license has wilfully given false information in its statements relative to the kind, quality, composition or fineness of the liming materials sold, or offered for sale, under the provisions of this act.

Revocation of
license

Section 7. The Secretary of Agriculture is hereby empowered to collect samples of the materials covered by section one of this act, either in person or by his duly qualified agent or representative, to have them analyzed, and shall publish the results for the information of the public; and for this purpose the said Secretary of Agriculture, such assistants, agents, experts, chemists, detectives, and counsel as he shall duly authorize, shall have full access, ingress, and egress to and from all places of business, quarries, kilns, factories, barns, buildings, carriages, cars, and vessels used in the manufacture, storage, transportation, or sale of any of the said materials. They shall also have power to open any package or vessel containing or supposed to contain any of the said materials, and to take therefrom samples for analysis, upon tendering the value of said samples. Any manufacturer or producer of any of the materials covered by section one of this act, located in the Commonwealth, shall be entitled to have a single sample of any distinct brand, for the sale of which he has paid the fee required by section five of this act, analyzed by the Department of Agriculture, under such regulations as the Secretary of Agriculture may prescribe with respect to the points of composition specified in said section one, upon sending sample properly sealed and carriage prepaid, together with a fee of five dollars for each such analysis; but not more than two brands shall be analyzed, under the privilege conferred by this proviso, for one manufacturer or producer in a single year. None of the provisions of this act shall apply to sales of limestone, or limestone products or marl, when such sales are made at the quarry or pit in bulk, and delivered to the wagons or trucks of the users, who are presumed to be acquainted with the qualities of the local products, if such deliveries do not exceed one hundred tons in any one year.

Collection of
samples

Right of access,
etc.

Taking of
samples for
analysis

Right of
producer to
have sample
analyzed

Fee

Limited
sales at pit
or quarry
excepted

Approved—The 22d day of May, A. D. 1933.

GIFFORD PINCHOT.

BRANDS REGISTERED AND TONNAGE SALES

The following tabulation shows the lime consumption, which figures are based on each succeeding year's applications for registration:

	1935	1936	1937	1938	1939
Limestone	108833	177661	308374	303207	368299
Artificial Carbonate	1755	2665	2860	1935	1680
Marl	2836	2712	2150	1467	797
Oyster Shell	2526	2757	2077	1479	1469
Hydrated	72543	78954	88331	70348	74447
Burned	25785	34742	52946	60939	83973
Gypsum	181	284	35	66	187
Miscellaneous	16055	19981	15130	16447	12765
Total tonnage	230514	319756	471903	455888	543617

Licenses were issued as follows:

	LICENSES	BRANDS	MFRS.
1935	110	203	104
1936	105	203	104
1937	126	232	121
1938	147	267	145
1939	150	280	143
1940	191	337	184

The results of chemical analyses of the 567 official samples showed that 102 or 17.9% were deficient in calcium oxide and 63 or 11.1% deficient in magnesium oxide to the extent of .50% or more below their respective guarantees.

TABLE I—AVERAGE ANALYSES, PRICES AND DEFICIENCIES

Classes of Lime Products	Samples	Brands	Mfrs.	Average Calcium Oxide %	Average Magnesium Oxide %	Price Per Ton \$	Deficiencies	
							Calcium Oxide	Magnesium Oxide
Pulverized Limestone	155	54	48	48.63	4.26	6.03	23	5
Pulverized Oyster Shell	2	1	1	46.75	0.43	9.45	1	..
Artificial Carbonate of Lime	3	1	1	54.13	0.90	9.50
Hydrated Lime (Low Magnesia) .	249	50	36	68.73	1.51	11.80	49	28
Hydrated Lime (High Magnesia)	60	17	13	48.17	32.01	13.02	4	17
Burned Lime	85	37	31	77.80	2.98	4.94	25	13
Miscellaneous	13	9	6

EXPLANATION OF TABLES OF ANALYSES

The letter "F" indicates the word "Found" or the figures obtained upon analysis, while the letter "G" denotes the guarantee of the manufacturer.

The samples which were found to be deficient in calcium and magnesium oxide to the extent of .50% or more are indicated by an asterisk (*).

Table I shows the average analyses, prices and deficiencies, together with the number of samples, brands and manufacturers of each class. Tables II to IV inclusive show results of chemical and physical examinations.

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
<u>PULVERIZED LIMESTONE</u>					
ADAMS STONE PRODUCTS COMPANY Hanover, Pa. Pulverized Limestone (C-2689)	F 49.04 G 48.00	4.53 4.00	99.2 99.2	70.0 70.0	62.8 62.8
AMERICAN LIME & STONE COMPANY Sellefonte, Pa. Alfalfa Pulverized Limestone (C-2511)	F 54.77 G 53.79	0.78 0.48	98.0 100.0	94.0 90.0	90.0 70.0
Alfalfa Pulverized Limeetone (C-2518)	F 54.88 G 53.79	0.50 0.48	100.0 100.0	96.0 90.0	92.0 70.0
Alfalfa Pulverized Limestone (C-2524)	F 55.22 G 53.79	0.48 0.48	100.0 100.0	96.0 90.0	93.2 70.0
Alfalfa Pulverized Limestone (C-2537)	F 54.22 G 53.79	0.49 0.48	100.0 100.0	97.2 90.0	92.8 70.0
Alfalfa Pulverized Limestone (C-2596)	F 55.10 G 53.79	0.42 0.48	100.0 100.0	97.6 90.0	87.2 70.0
Alfalfa Pulverized Limestone (C-2616)	F 54.61 G 53.79	0.48 0.48	100.0 100.0	99.2 90.0	96.4 70.0
Alfalfa Pulverized Limestone (C-2702)	F 54.40 G 53.79	0.52 0.48	100.0 100.0	96.0 90.0	88.0 70.0
Alfalfa Pulverized Limestone (C-2744)	F 54.47 G 53.79	0.91 0.48	100.0 100.0	98.4 90.0	91.2 70.0
Alfalfa Pulverized Limestone (C-2781)	F 54.65 G 53.79	0.48 0.48	100.0 100.0	88.8 80.0	82.4 70.0
Alfalfa Pulverized Limestone (C-2882)	F 55.55 G 53.79	0.49 0.48	100.0 100.0	96.0 90.0	86.4 70.0
Alfalfa Pulverized Limestone (C-2978)	F 54.99 G 53.79	0.50 0.48	100.0 100.0	87.6 80.0	78.8 70.0
Alfalfa Pulverized Limestone (C-2987)	F 54.88 G 53.79	0.48 0.48	100.0 100.0	85.2 80.0	77.2 70.0
Alfalfa Pulverized Limestone (C-2996)	F 54.89 G 53.79	0.54 0.48	100.0 100.0	86.8 80.0	78.4 70.0
Alfalfa Pulverized Limestone (C-3054)	F 54.01 G 53.79	1.47 0.48	100.0 100.0	92.4 80.0	88.0 70.0
Alfalfa Pulverized Limestone (C-3063)	F 54.68 G 53.79	1.41 0.48	100.0 100.0	90.0 80.0	83.2 70.0
Alfalfa Pulverized Limestone (C-3105)	F 54.25 G 53.79	0.78 0.48	100.0 100.0	99.2 90.0	96.0 70.0
Alfalfa Pulverized Limestone (C-3137)	F 55.50 G 53.79	0.52 0.48	100.0 100.0	99.2 80.0	95.6 70.0
SELLEFONTE LIME COMPANY Salona, Pa. Ground Limestone (C-2894)	F 39.28 G 36.66	0.66 0.75	51.6 ----	26.8 ----	22.0 ----
THE BESSEMER LIMESTONE & CEMENT CO. Youngstown, Ohio Bessemer Pulverized Limestone (C-2857)	F 52.15 G 50.40	0.54 0.58	100.0 100.0	97.6 99.0	91.6 75.0
Bessemer Pulverized Limestone (C-2913)	F 51.98 G 50.40	0.58 0.58	100.0 100.0	98.0 99.0	90.8 75.0
SOWSER & CAMPSELL, Kittanning, Pa. Ground Limestone (C-3076)	F *44.41 G 51.18	2.09 1.24	71.2 97.2	32.8 64.0	27.2 44.8
DAVID SURKHOLDER, Ephrata, Pa. Limestone (C-3174)	F 38.14 G ----	.5.09 ----	100.0 ----	73.6 ----	66.0 ----
THE CARBON LIMESTONE COMPANY Youngstown, Ohio Carbon Pulverized Limestone (C-2703)	F 51.16 G 51.29	.47 .47	100.0 100.0	78.8 75.0	70.0 65.0
Carbon Pulverized Limestone (C-2758)	F 51.22 G 51.29	.53 .47	100.0 100.0	80.0 75.0	67.2 65.0
Carbon Pulverized Limestone (C-3062)	F 53.72 G 51.29	.36 .47	100.0 100.0	80.0 75.0	70.8 65.0
Carbon Pulverized Limestone (C-3110)	F 51.78 G 51.29	.57 .47	100.0 100.0	85.2 75.0	80.8 65.0
Carbon Ground Limestone (C-2759)	F 51.00 G 51.29	.41 .47	86.8 90.0	60.4 55.0	53.6 50.0
Carbon XL Superfine Limestone (C-2856)	F 51.23 G 51.29	.58 .47	100.0 100.0	100.0 ----	97.6 ----
Carbon XL Superfine Limestone (C-2901)	F 51.59 G 51.29	.55 .47	100.0 100.0	96.4 ----	95.2 ----
Carbon XL Superfine Limestone (C-2926)	F 51.97 G 51.29	.19 .47	100.0 100.0	99.6 ----	98.4 ----
Carbon XL Superfine Limestone (C-3035)	F 53.50 G 51.29	.27 .47	100.0 100.0	100.0 100.0	99.2 95.0
Carbon XL Superfine Limestone (C-3149)	F 52.66 G 51.29	.19 .47	100.0 100.0	100.0 100.0	99.2 95.0
CHEMICAL LIME COMPANY, INC. Sellefonte, Pa. Agricultural Pulverized Limeetone (C-2874)	F 54.75 G 53.50	.52 .2	100.0 100.0	100.0 75.0	100.0 50.0

*Deficient

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
CHESTER VALLEY LIME COMPANY Paoli, Pa. Pulverized Limestone (C-3090)	F G	28.78 29.00	18.93 19.00	98.0 ---	91.6 ---
COOPERATIVE G.L.F. MILLS, INC. New York, N. Y. G.L.F. Quality Pulverized Limestone (C-2512)F G G.L.F. Quality Pulverized Limestone (C-2613)F G	F G F G F G	55.22 54.50 54.61 54.50	0.64 1.00 1.17 1.00	100.0 96.6 100.0 96.6	69.2 79.6 85.6 79.6
COOPERATIVE G.L.F. SOIL BUILDING SERVICE, INC., New York, N. Y. G.L.F. Quality Pulverized Limeetone (51% CaO) (C-2628)	F G	52.55 51.00	0.92 0.50	100.0 ---	100.0 ---
G.L.F. Quality Pulverized Limestone (53.50% CaO) (C-2838)	F G	*51.72 53.50	1.05 0.75	100.0 100.0	100.0 90.0
G.L.F. Quality Pulverized Limestone (53.50% CaO) (C-2930)	F G	53.54 53.50	0.83 0.75	100.0 100.0	80.8 90.0
DEPP BROTHERS, Hamilton, Pa. Depp's Pulverized Limestone (C-2839)	F G	*28.35 39.77	9.33 5.38	96.0 94.4	57.6 57.6
EAU CLAIRE LIME WORKS, Eau Claire, Pa. Eau Claire Pulverized Limestone (C-3150)	F G	*47.73 48.85	0.59 0.31	100.0 100.0	100.0 100.0
GIBSONBURG LIME PRODUCTS COMPANY Gibsonburg, Ohio Gibsonburg Pulverized Limestone (C-3000)	F G	31.36 30.00	21.54 22.00	100.0 100.0	98.0 98.0
GROVE CITY LIMESTONE CO., Sharon, Pa. Four Leaf Clover Brand Limestone (C-2529)	F G	53.00 51.67	0.55 0.40	100.0 100.0	64.4 64.0
Four Leaf Clover Brand Limestone (C-2555)	F G	51.99 51.67	0.70 0.40	100.0 100.0	76.0 64.0
Four Leaf Clover Brand Limestone (C-2576)	F G	51.55 51.67	0.84 0.40	100.0 100.0	64.0 54.0
Four Leaf Clover Brand Limestone (C-2645)	F G	52.66 51.67	0.56 0.40	100.0 100.0	88.0 64.0
Four Leaf Clover Brand Limestone (C-2660)	F G	51.33 51.67	0.51 0.40	100.0 100.0	100.0 64.0
Four Leaf Clover Brand Limestone (C-2674)	F G	51.99 51.67	0.56 0.40	100.0 100.0	66.4 64.0
Four Leaf Clover Brand Limestone (C-2750)	F G	52.73 51.67	0.38 0.40	100.0 100.0	62.0 64.0
Four Leaf Clover Brand Limestone (C-2788)	F G	*50.74 51.67	0.40 0.40	100.0 100.0	73.6 64.0
Four Leaf Clover Brand Limestone (C-2807)	F G	*50.74 51.67	0.40 0.40	100.0 100.0	72.4 64.0
Four Leaf Clover Brand Limestone (C-2842)	F G	*50.96 51.67	0.63 0.40	100.0 100.0	72.0 64.0
Four Leaf Clover Brand Limestone (C-2902)	F G	52.52 51.67	0.44 0.40	100.0 100.0	65.2 64.0
Four Leaf Clover Brand Limestone (C-2909)	F G	52.43 51.67	0.60 0.40	100.0 100.0	70.0 64.0
Four Leaf Clover Brand Limestone (C-3022)	F G	51.70 51.67	0.49 0.40	100.0 100.0	62.5 64.0
Four Leaf Clover Brand Limeetone (C-3023)	F G	51.70 51.67	0.50 0.40	100.0 100.0	71.2 64.0
Four Leaf Clover Brand Limestone (C-3099)	F G	52.67 51.67	0.71 0.40	100.0 100.0	60.0 64.0
G. W. HALL, Clarion, Pa. Marble Crushed Lime (C-2527)	F G	53.66 53.82	0.63 0.62	100.0 100.0	53.2 40.0
THE HERZOG LIME & STONE COMPANY Forest, Ohio Herzog Brand Pulverized Limestone (C-2763)	F G	30.90 30.28	21.19 21.56	100.0 100.0	93.6 ---
Herzog Brand Pulverized Limestone (C-3084)	F G	32.59 32.00	22.29 20.00	100.0 100.0	100.0 95.0
RUSSELL HEWITT, Wind Ridge, Pa. Hewitt's Pulverized Limestone (C-3108)	F G	*45.68 54.65	0.96 0.58	81.2 99.15	34.8 76.0
THE KELLEY ISLAND LIME & TRANSPORT CO. Cleveland, Ohio Whiterock Pulverized Limeetone (C-2510)	F G	31.55 29.76	21.52 21.25	100.0 100.0	98.8 95.0
Whiterock Pulverized Limestone (C-2748)	F G	29.99 29.75	21.28 21.25	100.0 100.0	95.6 95.0

*Deficient

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
LANDIS STONE MEAL COMPANY, RHEEMS, Pa. White Lily Ground Limestone (C-2509)	F G	*48.83 50.00	1.70 2.00	97.6 100.0	84.0 98.0	77.2 ---
White Lily Ground Limeetone (C-3140)	F G	*47.73 50.00	4.71 2.00	100.0 100.0	98.8 99.0	96.0 96.0
LIMESTONE PRODUCTS CORP. OF AMERICA Newton, N. J.						
Lime Crest Brand of Calcite Pulverized (C-2562)	F G	46.77 34.00	3.67 1.00	99.2 99.0	97.2 95.0	92.8 80.0
Lime Crest Brand of Calcite Pulverized (C-2620)	F G	45.88 34.00	3.50 1.00	100.0 99.0	100.0 95.0	96.0 90.0
Lime Crest Brand of Calcite Pulverized (C-2631)	F G	47.55 34.00	5.58 1.00	97.6 99.0	92.0 95.0	84.4 90.0
Lime Crest Brand of Calcite Pulverized (C-2735)	F G	44.98 34.00	7.11 1.00	100.0 99.0	97.6 95.0	87.2 90.0
Lime Crest Brand of Calcite Pulverized (C-2755)	F G	41.16 34.00	5.62 1.00	98.0 99.0	92.0 95.0	81.2 90.0
Lime Crest Brand of Calcite Pulverized (C-2768)	F G	37.41 34.00	2.56 1.00	100.0 99.0	97.2 95.0	88.0 90.0
Lime Creer Brand of Calcite Pulverized (C-2936)	F G	44.46 42.00	4.78 2.00	98.4 100.0	94.8 95.0	86.4 90.0
MERCER LIME & STONE CO., Mercer, Pa.						
Mercer Brand Pulverized Limestone (C-2559)	F G	53.55 52.00	0.70 0.50	100.0 100.0	89.2 65.0	47.2 55.0
Mercer Brand Pulverized Limestone (C-2588)	F G	54.39 52.00	0.53 0.50	82.0 100.0	44.8 65.0	38.0 55.0
Mercer Brand Pulverized Limeetone (C-2747)	F G	53.76 52.00	0.51 0.50	100.0 100.0	64.8 65.0	54.0 55.0
Mercer Brand Pulverized Limeetone (C-3082)	F G	55.50 51.26	1.33 0.50	100.0 100.0	80.0 75.0	71.6 65.0
MICHIGAN LIMESTONE & CHEMICAL CO., INC.						
Suffalo, N. Y.						
Calcite Brand Michigan Limeetone (C-2662)	F G	54.66 54.50	1.18 1.00	100.0 100.0	82.4 96.6	72.0 65.6
Calcite Brand Michigan Limeetone (C-2665)	F G	54.55 54.50	1.07 1.00	100.0 100.0	84.0 96.6	74.0 65.6
Calcite Brand Michigan Limestone (C-2711)	F G	54.22 54.50	1.57 1.00	100.0 100.0	72.0 96.6	72.8 65.6
Calcite Brand Michigan Limestone (C-2769)	F G	54.54 54.50	1.09 1.00	100.0 100.0	72.0 96.6	88.0 65.6
Calcite Brand Michigan Limestone (C-2786)	F G	54.10 54.50	1.06 1.00	100.0 96.6	100.0 72.0	96.0 65.6
H. E. MILLARD, Annville, Pa.						
Air Floated Pulverized Limeetone (Mag.) (C-2580)	F G	53.77 33.63	*0.90 17.69	100.0 -----	100.0 100.0	99.2 99.0
Air Floated Pulverized Limeetone (Cal.) (C-2622)	F G	*53.84 54.40	0.86 0.48	100.0 -----	100.0 100.0	97.2 99.0
Air Floated Pulverized Limeetone (Cal.) (C-2783)	F G	*53.42 54.40	0.64 0.48	100.0 -----	98.0 100.0	95.2 99.0
Air Floated Pulverized Limeetone (Cal.) (C-2931)	F G	53.87 53.50	1.01 0.50	100.0 -----	90.8 97.0	84.4 95.0
Air Floated Pulverized Limeetone (Cal.) (C-3086)	F G	54.90 53.50	1.30 0.50	100.0 100.0	95.2 97.0	90.4 95.0
Air Floated Pulverized Limeetone (Cal.) (C-3144)	F G	54.81 53.50	0.91 0.50	100.0 100.0	95.2 97.0	91.6 95.0
NATIONAL GYPSUM COMPANY, Suffalo, N. Y.						
Challenge Brand Pulverized Limeetone Flour (C-2698)	F O	53.28 51.00	*2.24 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limeetone Flour (C-2752)	F G	51.50 51.00	3.03 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limeetone Flour (C-2762)	F G	55.09 51.00	*0.94 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limeetone Flour (C-2767)	F G	51.97 51.00	3.00 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limeetone Flour (C-2833)	F G	52.59 51.00	2.60 3.00	100.0 100.0	100.0 100.0	100.0 99.0

*Deficient

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
Challenge Brand Pulverized Limestone Flour (C-2916)	F 51.74 G 51.00	4.29 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limestone Flour (C-2934)	F 51.86 G 51.00	3.03 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limestone Flour (C-2997)	F 51.07 G 51.00	3.29 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limestone Flour (C-3007)	F 50.96 G 51.00	3.02 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limestone Flour (C-3029)	F 50.95 G 51.00	3.38 3.00	100.0 100.0	100.0 100.0	100.0 99.0
Challenge Brand Pulverized Limestone Flour (C-3057)	F *50.00 G 51.00	4.98 3.00	100.0 100.0	100.0 100.0	100.0 99.0
NATIONAL MORTAR & SUPPLY CO.					
Pittsburgh, Pa.					
Banner Limestone (C-2552)	F 31.22 G 30.00	23.16 22.00	100.0 100.0	100.0 90.0	98.8 70.0
Banner Limestone (C-2670)	F 31.44 G 30.00	22.23 22.00	100.0 100.0	100.0 90.0	99.2 70.0
Banner Limestone (C-3061)	F 31.58 G 30.00	22.36 22.00	100.0 100.0	98.8 98.0	92.8 90.0
Banner Limestone (C-3111)	F 31.02 G 30.00	22.36 22.00	100.0 100.0	100.0 98.0	98.8 90.0
Banner Limestone (C-3121)	F 31.47 G 30.00	21.77 22.00	100.0 100.0	98.8 98.0	94.0 90.0
Pennant Agricultural Limestone (C-3081)	F 31.24 G 30.00	22.54 22.00	100.0 100.0	99.2 85.0	95.6 65.0
Pennant Agricultural Limestone (C-3119)	F 31.02 G 30.00	21.75 22.00	100.0 100.0	97.2 85.0	90.0 65.0
NEW CASTLE LIME AND STONE COMPANY					
New Castle, Pa.					
New Castle Brand Agricultural Limestone (C-2757)	F 51.22 G 51.52	0.76 0.75	96.0 100.0	70.8 75.0	62.2 65.0
New Castle Brand Agricultural Limestone (C-2801)	F *50.74 G 51.52	0.78 0.75	100.0 100.0	73.6 75.0	64.4 65.0
New Castle Brand Agricultural Limestone (C-2904)	F *50.26 G 51.52	0.94 0.75	99.2 100.0	70.8 75.0	64.8 65.0
New Castle Brand Agricultural Limestone (C-2995)	F 51.41 G 51.52	0.78 0.75	99.6 100.0	95.2 75.0	66.8 65.0
New Castle Brand Agricultural Limestone (C-3118)	F 52.07 G 51.52	0.63 0.75	100.0 100.0	81.2 75.0	74.8 65.0
NEW ENTERPRISE STONE & LIME COMPANY					
New Enterprise, Pa.					
Fort Bedford Pulverized Limestone (C-2708)	F *49.10 G 50.00	1.87 2.00	100.0 100.0	88.0 ---	80.0 80.0
Fort Bedford Pulverized Limestone (C-2716)	F *47.37 G 50.00	2.42 2.00	100.0 100.0	85.2 ---	74.4 70.0
Fort Bedford Pulverized Limestone (C-2764)	F *46.15 G 50.00	2.68 2.00	98.8 100.0	73.6 ---	61.6 80.0
Fort Bedford Pulverized Limestone (C-3070)	F 49.73 G 50.00	3.46 2.00	100.0 100.0	83.6 90.0	72.0 80.0
THE OHIO HYDRATE & SUPPLY COMPANY					
Woodville, Ohio					
OHSO Pulverized Raw Lime (C-2658)	F 31.44 G 31.50	22.50 20.00	100.0 100.0	100.0 98.0	99.2 90.0
OHSO Pulverized Raw Lime (C-2669)	F 31.44 G 31.50	21.68 20.00	100.0 100.0	100.0 98.0	99.2 90.0
OHSO Pulverized Raw Lime (C-3050)	F 32.86 G 31.50	22.18 20.00	100.0 100.0	100.0 96.0	96.0 83.0
OHSO Pulverized Raw Lime (C-3059)	F 32.97 G 31.50	22.50 20.00	100.0 100.0	99.6 96.0	93.2 83.0
OHSO Pulverized Raw Lime (C-3123)	F 31.98 G 31.50	21.80 20.00	100.0 100.0	98.4 96.0	96.0 83.0
PITTSBURGH ASPHALT PRODUCTS COMPANY					
Worthington, Pa.					
Papco Ground Limestone (C-3095)	F 43.75 G 43.74	0.77 0.72	100.0 100.0	100.0 100.0	100.0 100.0
RICE BROTHERS & LEMMONS, Holbrook, Pa.					
Pulverized Limestone (C-3107)	F *49.11 G 52.23	0.89 0.71	99.0 100.0	57.6 59.5	45.2 49.0
W. D. SELLERS, Sycamore, Pa.					
Phillipe Ground Limestone (C-3100)	F 45.08 G -----	1.27 -----	94.0 -----	60.0 -----	50.8 -----

*Deficient

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
SMICKSBURG COOPERATIVE LIME ASSOCIATION Smicksburg, Pa.					
Raw Lime (C-2725)	F G	38.80 38.17	3.31 3.39	88.8 98.8	48.0 54.0
Raw Lime (C-2964)	F G	*39.65 45.15	2.16 2.40	100.0 100.0	72.0 66.0
THE SOLVAY PROCESS CO., Syracuse, N. Y. Solvay Pulverized Limestone (C-2597)					
Solvay Pulverized Limestone (C-2630)	F G	50.06 50.00	1.81 1.50	100.0 ----	100.0 ----
THE STANDARD LIME & STONE COMPANY Baltimore, Md.					
Standard Brand Pulverized Limestone (C-2918)	F G	53.20 53.20	0.54 0.50	100.0 100.0	100.0 99.75
Standard Brand Pulverized Limestone (C-3114)	F G	55.13 53.20	0.58 0.50	100.0 100.0	100.0 99.75
STEACY & WILTON CO., Wrightsville, Pa. Sterling Pulverized Limestone (C-2688)					
Sterling Pulverized Limestone (C-2688)	F G	*46.44 48.00	7.60 1.00	100.0 100.0	100.0 ----
to 51.00					
THISTLEWAITE LIMESTONE COMPANY Jeffereon, Pa.					
Thistlewaite Ground Limestone (C-3106)	F O	49.79 50.21	0.92 0.71	98.2 98.0	73.6 74.09
THOMASVILLE STONE & LIME COMPANY Thomasville, Pa.					
Ground Limestone (C-2692)	F G	52.16 52.50	2.32 2.17	100.0 100.0	72.0 71.3
Pulverized Limestone (C-2691)	F G	55.84 53.20	*1.25 1.90	100.0 100.0	96.0 99.5
Pulverized Limestone (C-3027)	F G	52.84 53.20	1.90 1.90	100.0 100.0	100.0 99.5
TYLER CALCIUM CARBONATE COMPANY Williamsport, Pa.					
Ground Limestone (C-2896)	F G	54.09 54.00	0.52 0.52	77.6 75.0	34.0 32.0
TYRONE LIME & STONE CO., Tyrone, Pa. Sweet Clover Pulverized Limestone (C-2766)					
Sweet Clover Pulverized Limestone (C-2766)	F G	*52.02 52.91	1.96 0.60	100.0 100.0	100.0 85.0
UNITED QUARRIES, INC., Winfield, Pa. Famous Dry Valley Pulverized Limestone (C-3025)					
Famous Dry Valley Pulverized Limestone (C-3025)	F G	*48.29 50.25	1.49 0.75	97.6 100.0	57.6 65.0
Famous Dry Valley Pulverized Limestone (C-3032)	F G	50.17 50.25	0.75 0.75	100.0 100.0	68.0 65.0
Famous Dry Valley Pulverized Limestone (C-3066)	F G	51.50 50.25	2.10 0.75	100.0 100.0	74.4 65.0
UNIVERSAL GYPSUM & LIME COMPANY Buffalo, N. Y.					
Challenge Brand Pulverized Limestone (C-2519)	F G	53.44 51.00	2.55 3.00	100.0 100.0	100.0 100.0
Challenge Brand Pulverized Limestone (C-2565)	F G	53.11 51.00	*2.38 3.00	100.0 100.0	100.0 100.0
Challenge Brand Pulverized Limestone (C-2581)	F G	52.77 51.00	3.20 3.00	100.0 100.0	100.0 100.0
Challenge Brand Pulverized Limestone (C-2638)	F G	53.66 51.00	3.00 3.00	100.0 100.0	100.0 100.0
L. T. VAN NORMAN, Brockway, Pa. Sugar Hill Limestone (C-3097)	F O	51.11 50.00	0.77 0.75	98.0 96.0	56.8 48.0
WADDING BROTHERS, New Bethlehem, Pa. Ground Limestone (C-2975)	F G	54.10 52.88	0.40 0.27	68.4 76.0	40.4 50.0
WARNER COMPANY, Philadelphia, Pa. Warner's Pulverized Limeetone (C-2677)	F G	30.77 30.00	21.75 20.00	100.0 100.0	100.0 100.0

#Deficient

TABLE II--PULVERIZED LIMESTONE, PULVERIZED OYSTER SHELL AND ARTIFICIAL CARBONATE OF LIME

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
WHITEROCK QUARRIES, INC., Bellefonte, Pa. Whiterock Pulverized Limestone (C-2584)	F G	52.44 51.00	0.64 0.50	100.0 ----	88.0 ----	74.4 ----
Whiterock Pulverized Limestone (C-2623)	F G	51.66 51.00	0.92 0.50	100.0 ----	75.2 ----	63.2 ----
Whiterock Pulverized Limestone (C-2729)	F G	51.88 51.00	1.01 0.75	98.0 ----	54.0 90.0	40.0 80.0
Whiterock Pulverized Limestone (C-2753)	F G	52.01 51.00	0.75 0.75	100.0 ----	88.8 ----	77.6 80.0
Whiterock Pulverized Limestone (C-2885)	F G	51.16 51.00	0.93 0.75	99.2 ----	98.8 ----	96.4 80.0
Whiterock Pulverized Limestone (C-2983)	F G	53.54 53.50	0.75 0.75	100.0 ----	85.2 90.0	78.8 80.0
Whiterock Pulverized Limestone (C-3068)	F G	53.94 53.50	1.90 0.75	100.0 100.0	68.4 90.0	61.2 80.0
THE WOODVILLE LIME PRODUCTS COMPANY Toledo, Ohio Pulverized Limestone (C-2673)	F G	31.55 31.48	22.22 20.72	92.0 90.0	58.0 80.0	46.0 60.0
WORTHINGTON LIME & COAL COMPANY Worthington, Pa. Ground Limestone (C-3096)	F G	53.34 53.34	0.62 0.54	80.0 87.5	54.0 42.0	52.0 36.0
Average		48.63	4.26	----	----	----
<u>PULVERIZED OYSTER SHELL</u>						
POTOMAC POULTRY FOOD COMPANY Baltimore, Md. Potolime (C-2676)	F G	47.66 42.00	0.36 0.50	98.8 96.0	53.2 58.0	38.0 46.0
Potolime (C-3026)	F G	*45.84 48.00	0.50 0.50	97.6 96.0	47.6 52.0	33.2 44.0
Average		46.75	0.43	----	----	----
<u>ARTIFICIAL CARBONATE OF LIME</u>						
W. W. SOLTON, Barberton, Ohio Plant Lime (C-2556)	F G	54.44 51.50	0.95 0.95	100.0 100.0	100.0 85.0	100.0 80.0
Plant Lime (C-2672)	F G	54.17 51.50	0.75 0.95	100.0 100.0	100.0 85.0	100.0 80.0
Plant Lime (C-2855)	F G	53.78 51.50	1.00 0.95	100.0 100.0	100.0 85.0	100.0 80.0
Average		54.13	0.90	----	----	----

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
<u>HYDRATED LIME (Low Magnesia)</u>					
AMERICAN LIME & STONE COMPANY Bellefonte, Pa.					
Bald Eagle Hydrated Lime (C-2515)	F 73.32	0.71	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2517)	F 72.44	0.72	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2525)	F 73.10	0.79	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2538)	F 73.10	0.78	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2572)	F 73.11	0.91	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2595)	F 66.71	0.75	100.0	99.6	99.6
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2617)	F 69.93	0.76	100.0	99.6	99.2
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2650)	F 73.10	0.57	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2667)	F 72.55	0.64	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2680)	F 70.70	0.68	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2701)	F 72.38	0.63	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2732)	F 71.86	0.72	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2745)	F 69.32	0.70	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2760)	F 71.07	0.70	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2780)	F 71.68	0.70	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2809)	F 71.68	0.79	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2851)	F 72.28	0.76	100.0	99.0	99.0
	G 69.30	0.70	100.0	100.0	100.0
Bald Eagle Hydrated Lime (C-2852)	F 72.06	0.67	100.0	99.0	99.0
	G 69.30	0.70	100.0	100.0	100.0
Bald Eagle Hydrated Lime (C-2880)	F 70.59	0.62	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2906)	F 72.54	0.85	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2940)	F 73.03	0.72	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2979)	F 70.90	0.71	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2985)	F 70.67	0.70	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-2993)	F 70.56	0.74	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3040)	F 72.59	1.88	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3053)	F 73.48	1.56	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3071)	F 72.82	1.55	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3102)	F 70.98	0.83	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3138)	F 72.17	0.75	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bald Eagle Hydrated Lime (C-3146)	F 70.03	0.72	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.0	99.0
Bell Mine Hydrated Lime (C-2583)	F 73.33	0.66	100.0	99.6	99.2
	G 69.30	0.70	100.0	99.95	99.95
Bell Mine Hydrated Lime (C-3008)	F 70.56	0.71	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.95	99.95
Bell Mine Hydrated Lime (C-3037)	F 72.37	1.54	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.95	99.95
Bell Mine Hydrated Lime (C-3052)	F 73.88	1.62	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.95	99.95
Bell Mine Hydrated Lime (C-3104)	F 72.09	1.50	100.0	100.0	100.0
	G 69.30	0.70	100.0	99.95	99.95
ANNVILLE LIME COMPANY, Annville, Pa.					
Snow Flake Brand Hydrated Lime (C-2675)	F 63.99	*8.94	100.0	99.6	98.8
	G 60.00	11.00	100.0	99.0	96.0
Snow Flake Brand Hydrated Lime (C-2785)	F 63.28	*2.95	100.0	98.8	97.6
	G 60.00	11.00	100.0	99.0	96.0
J. E. BAKER COMPANY, York, Pa.					
Susquehanna Hydrated Lime (C-2514)	F 67.77	*3.27	100.0	100.0	99.2
	G 66.00	6.00	100.0	98.8	97.6
Susquehanna Hydrated Lime (C-2933)	F 67.29	7.54	100.0	100.0	99.0
	G 70.00	2.00	100.0	100.0	99.0
BAKER STONE COMPANY, Bloomsburg, Pa.					
Baker Brand Hydrated Lime (C-2513)	F *65.99	1.49	100.0	96.0	93.6
	G 67.28	1.21	100.0	96.0	95.2

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
Saker Brand Hydrated Lime (C-2534)	F	*65.44	1.51	98.0	91.2	89.2
	G	67.28	1.21	100.0	96.0	95.2
Saker Brand Hydrated Lime (C-2641)	F	68.10	1.30	100.0	94.8	94.0
	G	67.28	1.21	100.0	96.0	95.2
Baker Brand Hydrated Lime (C-2771)	F	*64.96	1.25	100.0	95.2	94.4
	G	67.28	1.21	100.0	96.0	95.2
Saker Brand Hydrated Lime (C-2915)	F	67.00	*0.91	99.6	94.8	94.0
	G	65.44	1.51	98.0	91.2	89.2
Saker Brand Hydrated Lime (C-3009)	F	65.63	1.56	100.0	96.0	94.2
	G	65.44	1.51	98.0	91.2	89.2
Saker Brand Hydrated Lime (C-3031)	F	65.60	1.57	100.0	95.6	93.6
	G	65.44	1.51	98.0	91.2	89.2
Saker Brand Hydrated Lime (C-3039)	F	66.93	1.56	100.0	97.6	96.0
	G	65.44	1.51	98.0	91.2	89.2
BOWSER & CAMPBELL, Kittanning, Pa. Hydrated Lime (C-2722)	F	63.56	2.04	88.0	83.2	81.6
	G	61.29	2.39	94.0	86.8	86.4
Hydrated Lime (C-2823)	F	*60.48	*1.81	63.2	57.6	56.8
	G	61.29	2.39	94.0	86.8	86.4
Hydrated Lime (C-2942)	F	63.84	2.54	92.0	87.2	86.8
	G	61.29	2.39	94.0	86.8	86.4
hydrated Lime (C-3075)	F	62.38	2.69	70.0	62.8	61.6
	G	61.29	2.39	94.0	86.8	86.4
CHEMICAL LIME COMPANY, INC. Bellefonte, Pa.						
Clover Brand Hydrated Lime (C-2516)	F	73.44	0.67	100.0	100.0	99.2
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2560)	F	72.21	0.93	100.0	100.0	100.0
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2568)	F	72.44	0.80	100.0	100.0	100.0
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2585)	F	72.26	0.77	100.0	99.6	99.2
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2644)	F	73.10	0.80	100.0	99.2	97.2
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2664)	F	72.55	0.83	100.0	100.0	100.0
	G	70.00	0.75	100.0	99.0	98.0
Clover Brand Hydrated Lime (C-2878)	F	72.71	0.63	100.0	100.0	100.0
	G	70.00	1.00	100.0	100.0	100.0
Clover Brand Hydrated Lime (C-2981)	F	73.02	0.75	100.0	100.0	100.0
	G	70.00	0.75	100.0	100.0	100.0
Clover Brand Hydrated Lime (C-3067)	F	71.37	1.51	100.0	100.0	100.0
	G	70.00	0.75	100.0	100.0	100.0
Clover Brand Hydrated Lime (C-3041)	F	73.82	1.55	100.0	100.0	98.8
	G	72.00	0.75	100.0	100.0	100.0
Three Star Hydrated Lime (C-2643)	F	73.33	0.70	100.0	100.0	99.2
	G	73.00	1.00	-----	-----	---
Three Star Hydrated Lime (C-2877)	F	72.93	0.62	100.0	100.0	100.0
	G	72.00	0.75	-----	100.0	100.0
Three Star Hydrated Lime (C-2900)	F	73.58	0.83	100.0	100.0	100.0
	G	72.00	0.75	-----	100.0	100.0
Three Star Hydrated Lime (C-2908)	F	73.90	0.75	100.0	100.0	100.0
	G	72.00	0.75	100.0	100.0	100.0
Three Star Hydrated Lime (C-3021)	F	72.05	0.76	100.0	100.0	100.0
	G	72.00	0.75	-----	100.0	100.0
COOPERATIVE G.L.F. SOIL BUILDING SERVICE, INC., New York, N. Y.						
G.L.F. Quality Agricultural Hydrated Lime (C-2627)	F	70.99	0.62	100.0	98.0	97.2
	G	70.00	0.55	-----	-----	---
O.L.F. Quality Agricultural Hydrated Lime (C-2929)	F	72.24	0.69	100.0	100.0	100.0
	G	70.00	0.55	-----	-----	---
EAU CLAIRE LIME WORKS, Eau Claire, Pa. Hydrated Lime (C-3020)	F	65.01	0.59	97.2	82.4	80.0
	G	65.00	0.55	95.0	85.0	75.0
M. J. GROVE LIME COMPANY, INC. Lime Kiln, Md.						
Famous Frederick County Agricultural Hydrated Lime (C-2920)	F	71.79	*1.35	100.0	100.0	100.0
	G	65.00	5.00	99.0	94.0	90.0
Famous Frederick County Agricultural Hydrated Lime (C-3056)	F	74.10	*1.42	100.0	100.0	100.0
	G	65.00	5.00	99.0	94.0	90.0
Famous Frederick County Agricultural Hydrated Lime (C-3128)	F	70.53	*0.91	100.0	100.0	100.0
	G	65.00	5.00	99.0	94.0	90.0
GUY HEFFELFINGER, Cowansville, Pa. Hydrated Lime (C-2949)	F	*64.51	*1.07	72.8	63.2	62.4
	G	69.38	1.71	-----	-----	---
WALTER HERSHBERGER, Kittanning, Pa. Hershberger Hydrated Lime (C-2713)	F	*60.78	2.48	80.4	72.0	69.2
	G	61.43	2.33	69.6	58.0	56.8

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
Hershberger Hydrated Lime (C-2721)	F 65.57 G 61.43	2.78 2.33	97.2 69.6	93.6 58.0	93.2 56.8
Hershberger Hydrated Lime (C-2824)	F *58.91 G 61.43	3.23 2.33	76.0 69.6	70.0 58.0	69.2 56.8
Hershberger Hydrated Lime (C-2943)	F 65.30 G 81.43	2.46 2.33	88.4 69.6	83.6 58.0	82.4 56.8
Hershberger Hydrated Lime (C-3078)	F 63.49 G 61.43	3.53 2.33	92.0 69.6	86.4 58.0	84.8 56.8
J. K. HOBAUGH, Kittanning, Pa. Hydrated Lime (C-2724)	F 64.13 G *62.16	1.51 1.82	78.0 72.0	74.0 67.6	73.2 66.8
Hydrated Lime (C-2822)	F 64.58 G 64.56	1.98 1.98	-----	-----	-----
Hydrated Lime (C-2952)	F 64.58 G 64.50	1.98 2.97	84.0 92.8	78.4 86.0	77.2 84.4
Hydrated Lime (C-3077)	G 64.58	1.98	-----	-----	-----
JOE HUMENICK, Ford City, Pa. Farmdale Hydrated Lime (C-2946)	F *67.65 G 68.40	1.96 1.72	98.0 98.0	96.8 97.2	96.0 96.0
Joe's Brand Hydrated Lime (C-3074)	F *52.89 G 64.29	2.42 2.61	82.8 100.0	79.2 100.0	76.8 99.2
THE KELLEY ISLAND LIME & TRANSPORT CO. Cleveland, Ohio					
Tiger Agricultural Hydrate (Buffalo) (C-2840)	F 71.41 G 70.00	0.88 0.32	100.0 100.0	100.0 99.9	100.0 99.2
Tiger Agricultural Hydrate (Buffalo) (C-3125)	F 71.64 G 70.00	0.85 0.32	100.0 100.0	100.0 99.9	100.0 99.8
Tiger Agricultural Hydrate (Marblehead) (C-2587)	F 67.99 G 62.84	*7.50 11.92	100.0 -----	100.0 -----	100.0 -----
ED KUNKLE, McGrann, Pa. Kunkle's Brand of Hydrated Lime (C-2945)	F *64.74 G 77.50	1.71 1.47	96.8 100.0	91.2 97.6	89.6 95.6
Kunkle's Brand of Hydrated Lime (C-3073)	F *57.80 G 77.50	1.01 1.47	67.6 100.0	62.4 97.6	61.2 95.6
LIMESTONE PRODUCTS CORP. OF AMERICA Newton, N. J.					
Lime Crest Brand Hydrated Lime (C-2563)	F 68.88 G 60.00	4.09 4.50	100.0 100.0	100.0 97.0	99.2 95.0
Lime Crest Brand Hydrated Lime (C-2600)	F 70.10 G 60.00	*3.05 4.50	100.0 100.0	99.2 97.0	98.5 95.0
Lime Crest Brand Hydrated Lime (C-2756)	F 68.08 G 64.00	2.95 1.00	100.0 100.0	98.0 97.0	92.8 95.0
Lime Crest Brand Hydrated Lime (C-2837)	F 70.76 G 64.00	1.75 1.00	100.0 100.0	100.0 97.0	97.4 95.0
Lime Crest Brand Hydrated Lime (C-2927)	F 69.66 G 64.00	1.86 1.00	100.0 100.0	99.2 97.0	97.2 95.0
Lime Crest Brand Hydrated Lime (C-3030)	F 67.82 G 64.00	2.04 1.00	100.0 100.0	100.0 97.0	100.0 95.0
Lime Crest Brand Hydrated Lime (C-3034)	F 67.71 G 64.00	1.88 1.00	100.0 100.0	100.0 97.0	100.0 95.0
C. D. & R. R. McCANNA, Kittanning, Pa. McCanna Brand Hydrated Lime (C-2720)	F 65.46 G 65.79	0.51 0.66	94.8 94.0	92.0 88.8	91.2 88.0
McCanna Brand Hydrated Lime (C-2825)	F 65.86 G 65.00	0.34 0.51	95.2 94.0	91.2 88.8	90.4 88.0
McCanna Brand Hydrated Lime (C-2953)	F 68.77 G 65.00	0.67 0.51	94.8 94.0	94.0 88.8	93.2 88.0
MECHLING & REED, Kittanning, Pa. Hydrated Lime (C-2951)	F 62.27 G 59.45	1.26 1.26	69.6 100.0	60.8 91.2	57.6 85.6
MERCER LIME & STONE COMPANY, Mercer, Pa. Mercer Brand Hydrated Lime (C-2521)	F *60.44 G 61.00	0.85 0.80	94.0 98.0	86.8 90.0	84.8 80.0
Mercer Brand Hydrated Lime (C-2557)	F 68.00 G 63.11	to 0.81	99.2 98.0	94.0 90.0	91.2 80.0
Mercer Brand Hydrated Lime (C-2558)	F 65.00 G *58.99	0.80 0.84	98.0 94.0	78.0 84.0	72.0 80.0
Mercer Brand Hydrated Lime (C-2574)	F 65.00 G 65.99	0.80 1.10	98.0 98.8	90.0 84.0	80.0 80.0
Mercer Brand Hydrated Lime (C-2589)	F 67.50 G 61.00	0.82 0.80	97.2 98.0	88.0 90.0	87.2 80.0
Mercer Brand Hydrated Lime (C-2614)	F 68.00 G 61.27	to 0.80	98.0 98.0	90.0 84.0	80.0 80.0

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
Mercer Brand Hydrated Lime (C-2648)	F	*62.00	0.77	93.2	84.0	83.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2653)	F	*61.88	0.88	95.2	84.4	82.4
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2659)	F	61.88	1.23	88.0	78.0	75.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2684)	F	61.99	0.59	100.0	91.2	90.0
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2731)	F	*59.87	0.85	93.6	80.0	76.8
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2782)	F	62.61	0.53	91.6	86.4	84.0
	G	63.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2789)	F	*61.38	*0.32	89.6	82.0	80.4
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2806)	F	*62.38	0.82	85.2	77.6	76.8
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2853)	F	*61.12	0.53	96.4	90.0	87.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2869)	F	*61.46	0.59	91.6	82.4	81.6
	G	63.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2899)	F	63.39	0.83	93.6	89.6	87.6
	G	65.00	0.80	97.0	87.0	77.0
Mercer Brand Hydrated Lime (C-2910)	F	*59.44	0.80	95.2	83.2	81.6
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2923)	F	*60.70	0.80	96.8	90.4	89.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2939)	F	*60.70	0.82	100.0	91.6	89.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-2988)	F	65.84	0.84	97.6	91.2	90.0
	G	63.00	0.80	97.0	87.0	77.0
Mercer Brand Hydrated Lime (C-2992)	F	63.39	0.82	92.0	83.6	81.2
	G	65.00	0.80	98.0	90.0	80.0
Mercer Brand Hydrated Lime (C-3019)	F	63.03	0.84	84.4	75.6	74.4
	G	63.00	0.80	97.0	87.0	77.0
Mercer Brand Hydrated Lime (C-3043)	F	67.16	1.54	100.0	96.4	93.6
	G	63.00	0.80	97.0	87.0	77.0
Mercer Brand Hydrated Lime (C-3080)	F	68.60	1.35	100.0	98.4	97.2
	G	63.00	0.75	97.0	87.0	77.0
Mercer Brand Hydrated Lime (C-3098)	F	65.39	0.83	100.0	96.0	95.2
	G	63.00	0.80	100.0	90.0	80.0
Mercer Brand Hydrated Lime (C-3145)	F	63.72	0.89	100.0	95.6	94.4
	G	63.00	0.80	100.0	90.0	80.0
Mercer Brand Hydrated Lime (Spray) (C-3079)	F	68.82	1.43	100.0	100.0	100.0
	G	66.80	0.63	-----	100.0	99.3
H. E. MILLARD, Annville, Pa.						
Modern Rotary Kiln Spray & Dusting Lime (C-3005)	F	71.45	1.19	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.75	99.0
Modern Rotary Kiln Spray & Dusting Lime (C-3011)	F	71.00	1.72	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.75	99.0
Modern Rotary Kiln Spray & Dusting Lime (C-3088)	F	73.04	1.91	100.0	100.0	100.0
	G	71.00	1.00	100.0	99.75	99.0
Sweet Arrow Hydrated Lime (C-25C2)	F	71.55	1.51	100.0	100.0	98.4
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2535)	F	70.88	1.51	100.0	100.0	98.8
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2567)	F	*67.77	3.30	100.0	100.0	100.0
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2579)	F	72.55	1.02	100.0	99.6	99.2
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2621)	F	69.77	1.56	100.0	100.0	98.0
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2784)	F	70.56	1.46	100.0	100.0	100.0
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2832)	F	71.41	*0.77	100.0	100.0	100.0
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-2928)	F	70.56	*0.62	100.0	100.0	99.5
	G	70.00	1.50	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-3004)	F	70.89	1.19	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
Sweet Arrow Hydrated Lime (C-3087)	F	72.82	2.00	100.0	100.0	100.0
	G	70.00	1.00	100.0	99.25	99.0
NATIONAL GYPSUM COMPANY, Buffalo, N. Y.						
Gold Bond Hydrated Lime (C-2835)	F	71.41	1.48	100.0	100.0	98.0
	G	71.00	1.00	-----	-----	-----
Gold Bond Hydrated Lime (C-2917)	F	71.98	1.19	100.0	100.0	99.2
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime (C-2935)	F	73.02	1.00	100.0	100.0	99.6
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime (C-2998)	F	71.23	1.18	100.0	100.0	100.0
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Hydrated Lime (C-3017)	F	71.15	1.09	100.0	100.0	100.0
	G	71.00	1.00	100.0	98.0	97.0
Gold Bond Spraying & Dusting Hydrated Lime (C-3016)	F	72.16	1.08	100.0	100.0	100.0
	G	72.00	1.00	-----	100.0	100.0
Palmer Hydrated Lime (C-2696)	F	72.60	*1.33	100.0	100.0	100.0
	G	70.00	2.00	100.0	98.0	97.0

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
NEW ENTERPRISE STONE & LIME COMPANY					
New Enterprise, Pa.					
Fort Bedford Hydrated Lime (C-2649)	F	71.88	*1.50	100.0	100.0
	G	68.96	*2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2666)	F	70.99	*1.48	100.0	100.0
	G	68.96	2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2682)	F	70.37	2.34	100.0	100.0
	G	68.96	2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2706)	F	69.59	4.02	100.0	100.0
	G	68.96	2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2707)	F	69.81	3.43	100.0	100.0
	G	68.96	*2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2715)	F	70.49	*1.40	100.0	100.0
	G	68.96	2.42	100.0	99.0
Fort Bedford Hydrated Lime (C-2765)	F	*69.22	2.77	100.0	100.0
	G	70.00	2.50	100.0	100.0
Fort Bedford Hydrated Lime (C-2870)	F	*67.19	5.45	100.0	100.0
	G	70.00	2.50	100.0	99.0
Fort Bedford Chemical Hydrate Lime (C-2980)	F	70.78	2.47	100.0	100.0
	G	68.96	2.42	100.0	100.0
Fort Bedford Chemical Hydrate Lime (C-3136)	F	69.66	4.26	100.0	100.0
	G	68.96	2.42	100.0	100.0
NORTH AMERICAN CEMENT CORP.					
Baltimore, Md.					
Berkley Hydrated Lime (C-2618)	F	70.88	*1.43	100.0	100.0
	G	70.00	2.00	100.0	99.0
Berkley Hydrated Lime (C-2770)	F	70.34	2.04	100.0	100.0
	G	70.00	2.00	100.0	98.9
Berkley Hydrated Lime (C-2834)	F	71.20	*1.25	100.0	100.0
	G	70.00	2.00	100.0	98.9
Berkley Hydrated Lime (C-3092)	F	70.57	*1.40	100.0	100.0
	G	70.00	2.00	100.0	98.9
PINE CREEK LIME & STONE COMPANY					
Jersey Shore, Pa.					
Imperial Hydrated Lime (C-2547)	F	63.88	2.84	100.0	96.4
	G	62.50	3.00	100.0	97.0
Imperial Hydrated Lime (C-2591)	F	66.16	3.06	100.0	98.8
	G	62.50	3.00	100.0	95.0
Imperial Hydrated Lime (C-2635)	F	68.66	3.34	100.0	98.0
	G	62.50	3.00	100.0	95.0
Imperial Hydrated Lime (C-2739)	F	64.73	3.28	100.0	97.2
	G	62.50	3.00	100.0	95.0
Imperial Hydrated Lime (C-2814)	F	62.38	4.14	100.0	98.8
	G	62.50	3.00	100.0	95.0
Imperial Hydrated Lime (C-2860)	F	66.43	3.01	100.0	100.0
	G	62.50	3.00	100.0	97.0
Imperial Hydrated Lime (C-3033)	F	62.88	3.87	100.0	98.0
	G	62.50	3.00	100.0	95.0
PLAIN GROVE LIME CO., Plain Grove, Pa.					
Hydrated Lime (C-2528)	F	62.99	1.09	94.4	90.0
	G	61.00	0.80	100.0	48.0
POWHATAN LIME COMPANY					
Strasburg Junction, Virginia					
Farmers Friend Hydrated Lime (C-2977)	F	69.44	1.52	98.8	97.2
	G	65.00	1.50	-----	96.8
Farmers Friend Hydrated Lime (C-2989)	F	65.55	1.51	100.0	98.0
	G	65.00	1.50	-----	97.2
Farmers Friend Hydrated Lime (C-2990)	F	65.77	1.53	100.0	98.4
	G	65.00	1.50	-----	99.0
Farmers Friend Hydrated Lime (C-3046)	F	72.82	2.23	100.0	100.0
	G	65.00	1.50	-----	99.0
Farmers Friend Hydrated Lime (C-3089)	F	72.37	2.30	100.0	100.0
	G	65.00	1.50	-----	99.0
Farmers Friend Hydrated Lime (C-3101)	F	69.64	1.57	100.0	99.6
	G	65.00	1.50	-----	98.8
Farmers Friend Hydrated Lime (C-3124)	F	71.20	1.23	100.0	99.2
	G	65.00	1.50	-----	99.0
Farmers Friend Hydrated Lime (C-3143)	F	71.72	1.59	100.0	99.6
	G	65.00	1.50	-----	99.2
Powhatan Chemical Spray (C-2683)	F	71.62	0.70	100.0	98.0
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-2726)	F	*72.17	1.00	100.0	98.4
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-2749)	F	*72.28	1.99	100.0	100.0
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-2922)	F	*70.45	1.00	100.0	99.6
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-2941)	F	73.25	1.00	100.0	100.0
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-2982)	F	73.58	1.10	100.0	100.0
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-3018)	F	73.04	1.15	100.0	100.0
	G	73.00	1.00	-----	100.0
Powhatan Chemical Spray (C-3036)	F	73.93	1.48	100.0	100.0
	G	73.00	1.00	-----	100.0

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS			
			#20	#60	#100	
	%	%	%	%	%	
Powhatan Chemical Spray (C-3045)	F G	73.82 73.00	1.67 1.00	100.0 -----	100.0 -----	100.0 100.0
Powhatan Chemical Spray (C-3130)	F G	73.54 73.00	1.29 1.00	100.0 -----	100.0 -----	100.0 100.0
Powhatan Chemical Spray (C-3135)	F G	73.77 73.00	0.96 1.00	100.0 -----	100.0 -----	100.0 100.0
ROBERT A. REICHARD, INC., Allentown, Pa. Reichard's Lehigh Hydrated Lime (C-2569)	F G	70.55 68.00	1.56 0.50	100.0 -----	100.0 -----	100.0 -----
ROSE POINT STONE & LIME COMPANY New Castle, Pa.						
Rose Point Hydrated Lime (C-2647)	F G	64.66 63.50	1.11 1.50	88.0 96.0	84.0 89.0	84.0 87.0
Rose Point Hydrated Lime (C-2656)	F G	*62.99 63.50	1.13 1.50	90.0 96.0	80.4 89.0	80.0 87.0
Rose Point Hydrated Lime (C-2746)	F G	63.50 63.50	1.56 1.50	98.0 96.0	92.0 89.0	90.4 87.0
Rose Point Hydrated Lime (C-2751)	F G	*57.86 62.00	1.03 1.05	88.4 96.0	77.6 89.0	75.2 87.0
Rose Point Hydrated Lime (C-2810)	F G	*60.48 63.50	1.50 1.50	82.4 96.0	75.2 89.0	71.2 87.0
Rose Point Hydrated Lime (C-2854)	F G	*62.97 63.50	*0.93 1.50	97.2 96.0	92.4 89.0	90.4 87.0
Rose Point Hydrated Lime (C-2859)	F G	64.82 63.50	1.03 1.50	98.4 96.0	95.2 95.0	92.4 94.0
Rose Point Hydrated Lime (C-2905)	F G	*62.60 63.50	1.04 1.50	97.6 96.0	91.2 95.0	88.8 94.0
Rose Point Hydrated Lime (C-2911)	F G	*62.15 63.50	*0.93 1.50	94.4 96.0	88.0 95.0	86.8 94.0
Rose Point Hydrated Lime (C-2986)	F G	*61.15 63.50	1.48 1.50	91.6 96.0	86.8 95.0	84.0 94.0
Rose Point Hydrated Lime (C-3042)	F G	64.38 63.50	2.03 1.50	99.2 96.0	98.8 95.0	93.2 94.0
Rose Point Hydrated Lime (C-3151)	F G	*57.78 63.50	*0.96 1.50	92.4 96.0	85.2 95.0	83.6 94.0
SCIOTO LIME & STONE COMPANY Delaware, Ohio						
Scioto Clover Grower (C-2639)	F G	67.44 62.62	*4.19 5.22	100.0 -----	96.0 -----	92.8 -----
Scioto Clover Grower (C-2761)	F G	66.76 62.62	5.69 5.22	100.0 -----	97.6 -----	96.0 -----
THE STANDARD LIME & STONE COMPANY Baltimore, Md.						
Standard Agricultural Hydrated Lime (C-2730) F	G	73.00 71.00	1.00 1.00	100.0 100.0	100.0 99.5	100.0 95.0
Standard Agricultural Hydrated Lime (C-3116) F	G	71.87 71.00	0.93 1.00	100.0 100.0	100.0 99.5	100.0 95.0
Standard Agricultural Hydrated Lime (C-3126) F	G	71.42 71.00	0.97 1.00	100.0 100.0	100.0 99.5	100.0 95.0
Washington Chemical Hydrated Lime (C-3002) F	G	73.20 71.00	1.09 1.00	100.0 100.0	100.0 100.0	100.0 95.0
Washington Chemical Hydrated Lime (C-3064) F	G	74.55 71.00	1.57 1.00	100.0 100.0	100.0 100.0	100.0 95.0
Washington Chemical Hydrated Lime (C-3115) F	G	71.42 71.00	2.47 1.00	100.0 100.0	100.0 100.0	100.0 95.0
STEACY & WILTON CO., Wrightsville, Pa. Sterling Brand Hydrated Lime (C-2687)	F G	*65.79 69.00	8.14 3.00	100.0 100.0	100.0 99.25	100.0 99.0
Sterling Brand Hydrated Lime (C-3015)	F G	69.30 69.00	3.03 3.00	100.0 100.0	98.8 99.25	97.2 99.0
Sterling Brand Hydrated Lime (C-3094)	F G	69.08 69.00	3.71 3.00	100.0 100.0	99.6 99.25	99.2 99.0
THOMASVILLE STONE & LIME COMPANY Thomasville, Pa.						
Thomasville Hydrated Lime (C-2693)	F G	71.71 70.00	2.52 2.00	100.0 100.0	100.0 98.0	100.0 97.0
W. E. TOY, Kittanning, Pa. Hydrated Lime (C-2950)	F G	68.66 64.87	0.51 0.42	66.8 82.0	62.8 78.0	61.2 78.0
Hydrated Lime (C-3152)	F G	66.62 64.87	0.46 0.42	96.4 82.0	92.0 78.0	91.6 78.0
UNIVERSAL GYPSUM & LIME COMPANY Buffalo, N. Y.						
Palmer Hydrated Lime (C-2520)	F G	72.32 70.00	*1.27 2.00	100.0 100.0	100.0 98.0	98.0 97.0
Palmer Hydrated Lime (C-2566)	F G	70.66 70.00	*1.50 2.00	100.0 100.0	100.0 98.0	99.2 97.0
Palmer Hydrated Lime (C-2582)	F G	72.88 70.00	2.10 2.00	100.0 100.0	99.6 98.0	99.2 97.0
Palmer Spray Hydrated (C-2599)	F G	71.77 70.00	1.52 2.00	100.0 100.0	100.0 100.0	99.6 99.0

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
WEST BRANCH LIME COMPANY Williamsport, Pa.					
Clover Leaf Hydrated Lime (C-2545)	F 65.33	2.13	97.2	92.8	90.0
	G 65.00	1.90	99.0	95.0	91.0
Clover Leaf Hydrated Lime (C-2634)	F 68.66	*1.21	94.0	85.6	81.2
	G 64.00	2.00	99.0	95.0	91.0
Clover Leaf Hydrated Lime (C-2800)	F 65.18	2.86	99.2	83.2	91.6
	G 65.00	2.00	97.0	92.0	90.0
WHITEHOCK QUARRIES, INC., Bellefonte, Pa.					
Whiterock Nittany H-O Hydrated Lime (C-2526)F	71.77	0.92	100.0	97.2	94.8
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2564)F	70.55	0.97	100.0	99.6	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2578)F	70.00	0.62	100.0	100.0	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2586)F	71.04	0.59	100.0	99.6	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2615)F	71.66	0.62	100.0	100.0	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2712)F	70.83	1.26	100.0	98.0	96.4
	G 70.00	0.55	100.0	98.0	88.0
Whiterock Nittany H-O Hydrated Lime (C-2754)F	70.04	0.58	100.0	98.0	96.0
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2779)F	71.00	0.55	100.0	100.0	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2843)F	*69.36	0.81	100.0	97.6	96.0
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2919)F	73.02	0.68	100.0	100.0	99.6
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2932)F	*69.22	0.83	100.0	98.4	97.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-2938)F	72.02	0.64	100.0	100.0	99.6
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3010)F	71.56	0.55	100.0	100.0	100.0
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3012)F	71.00	0.55	100.0	100.0	99.6
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3028)F	71.26	0.52	100.0	100.0	100.0
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3069)F	73.04	1.61	100.0	100.0	100.0
	G 70.00	1.00	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3093)F	72.09	0.71	100.0	99.2	99.2
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Nittany H-O Hydrated Lime (C-3103)F	70.53	0.85	100.0	99.2	99.0
	G 70.00	0.55	100.0	99.0	99.0
Whiterock Superfine Hydrated Lime (C-2728)F	*72.16	0.77	100.0	99.6	99.2
	G 73.21	0.62	-----	-----	-----
Whiterock Superfine Hydrated Lime (C-2805)F	*71.23	0.66	100.0	100.0	100.0
	G 73.21	0.62	-----	-----	-----
Whiterock Superfine Hydrated Lime (C-2984)F	73.02	0.62	100.0	100.0	100.0
	G 73.21	0.62	100.0	100.0	100.0
Whiterock Superfine Hydrated Lime (C-3013)F	73.15	0.62	100.0	100.0	100.0
	G 73.21	0.62	100.0	100.0	100.0
Whiterock Superfine Hydrated Lime (C-3065)F	74.81	1.40	100.0	100.0	100.0
	G 73.21	0.62	-----	-----	-----
Whiterock Superfine Hydrated Lime (C-3133)F	73.77	0.74	100.0	100.0	99.2
	G 73.21	0.62	-----	-----	-----
Whiterock Superfine Hydrated Lime (C-3134)F	74.00	0.72	100.0	100.0	100.0
	G 73.21	0.62	-----	-----	-----
Whiterock Micro-Mesh (C-3014)F	73.26	0.64	100.0	100.0	100.0
	G 73.21	0.61	100.0	100.0	100.0
Average	68.73	1.51	-----	-----	-----
HYDRATED LIME (High Magnesia)					
CHESTER VALLEY LIME COMPANY Paoli, Pa.					
Hydrated Lime (C-3091)	F 47.32	32.03	100.0	99.6	98.8
	G 46.50	31.00	-----	-----	98.0
COOPERATIVE G.L.F. SOIL BUILDING SERVICE, INC., New York, N. Y.					
G.L.F. Quality Agricultural Hydrated Lime (C-2937)	F 48.16	*31.44	100.0	98.8	98.0
	G 47.20	32.90	100.0	97.0	94.0
G. & W. H. CORSON, INC. Plymouth Meeting, Pa.					
Corsons High Magnesium Hydrate (C-2709)	F 46.70	31.60	100.0	97.2	95.2
	G 46.50	31.00	99.0	97.0	95.0
Corsons High Magnesium Hydrate (C-3003)	F 47.71	31.57	100.0	98.4	97.6
	G 46.50	31.00	99.0	97.0	95.0
GIBSONBURG LIME PRODUCTS COMPANY Gibsonburg, Ohio					
Fertlime (C-2999)	F *46.82	*31.80	100.0	100.0	97.0
	G 47.82	33.82	100.0	100.0	80.0

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
THE HERZOG LIME & STONE COMPANY Forest, Ohio					
Herzog Brand Hydrated Agricultural Lime (C-2546)	F 47.88	33.44	100.0	99.2	98.0
	G 47.20	32.90	100.0	97.0	94.0
Herzog Brand Hydrated Agricultural Lime (C-3083)	F 49.73	33.70	100.0	100.0	100.0
	G 47.20	32.90	100.0	99.0	98.0
Herzog Brand Hydrated Agricultural Lime (C-3085)	F 49.73	33.02	100.0	100.0	100.0
	G 47.20	32.90	100.0	99.0	98.0
THE KELLEY ISLAND LIME & TRANSPORT CO. Cleveland, Ohio					
Tiger Agricultural Hydrate (White Rock) (C-2652)	F 48.66	*31.95	100.0	99.2	98.4
	G 47.12	34.14	100.0	99.9	95.5
Tiger Agricultural Hydrate (White Rock) (C-2858)	F 47.32	*31.82	100.0	100.0	97.2
	G 47.12	34.79	100.0	99.9	95.5
Tiger Agricultural Hydrate (White Rock) (C-2912)	F 48.14	34.19	100.0	100.0	98.8
	G 47.12	34.14	100.0	99.9	95.5
NATIONAL GYPSUM CO., Buffalo, N. Y.					
Gold Bond Agricultural Hydrated Lime (Luckey) (C-2846)	F 47.72	*31.44	100.0	100.0	100.0
	G 47.30	32.65	100.0	99.0	85.0
Gold Bond Agricultural Hydrated Lime (Luckey) (C-3024)	F 47.84	32.79	100.0	98.4	91.2
	G 47.30	32.65	100.0	99.0	85.0
Gold Bond Agricultural Hydrated Lime (Luckey) (C-3049)	F 60.61	*17.92	100.0	100.0	99.2
	G 47.30	32.65	100.0	99.0	85.0
Gold Bond Agricultural Hydrated Lime (Luckey) (C-3142)	F 47.96	32.69	100.0	99.6	98.8
	G 47.30	32.65	100.0	99.0	85.0
Luckey Agricultural Hydrated (C-2808)	F 48.16	32.59	100.0	100.0	99.2
	G 42.80	32.70	100.0	99.0	85.0
Luckey Agricultural Hydrated (C-2811)	F 47.97	32.40	100.0	100.0	97.2
	G 42.80	32.70	100.0	99.0	85.0
Luckey Agricultural Hydrated (C-2848)	F 47.25	*31.71	100.0	100.0	96.8
	G 42.80	32.70	100.0	99.0	85.0
THE NATIONAL LIME & STONE COMPANY Findlay, Ohio					
Monarch Hydrated Lime (C-2671)	F 49.55	33.51	100.0	100.0	98.0
	G 48.00	33.50	-----	-----	-----
Monarch Hydrated Lime (C-3112)	F 47.96	33.52	100.0	100.0	99.2
	G 48.00	33.50	-----	-----	-----
NATIONAL MORTAR & SUPPLY COMPANY Pittsburgh, Pa.					
Banner Agricultural Hydrate (C-2553)	F 49.55	33.06	100.0	99.2	97.2
	G 48.00	33.00	100.0	99.3	98.9
Banner Agricultural Hydrate (C-2593)	F 48.84	33.43	100.0	99.6	99.2
	G 48.00	33.00	100.0	99.3	98.9
Banner Agricultural Hydrate (C-2640)	F 49.44	*32.36	100.0	100.0	96.0
	G 48.00	33.00	100.0	99.3	98.9
Banner Agricultural Hydrate (C-2654)	F 49.44	*32.43	100.0	98.0	96.0
	G 48.00	33.00	100.0	99.3	98.9
Banner Agricultural Hydrate (C-2776)	F 48.05	33.00	100.0	100.0	99.6
	G 48.00	33.00	100.0	99.3	98.9
Banner Agricultural Hydrate (C-3048)	F 50.22	33.86	100.0	100.0	100.0
	G 48.00	33.62	100.0	99.3	98.9
Banner Agricultural Hydrate (C-3060)	F 49.62	33.98	100.0	100.0	100.0
	G 48.00	33.62	100.0	99.3	98.9
Banner Agricultural Hydrate (C-3120)	F 48.33	*32.65	100.0	100.0	100.0
	G 48.00	33.62	100.0	99.3	98.9
Banner Crop Lime (C-2668)	F 42.22	28.54	97.2	84.0	80.0
	G 40.60	27.40	94.0	75.0	68.0
Banner Crop Lime (C-2699)	F *37.65	*25.91	99.2	90.0	78.0
	G 38.26	26.94	98.8	92.2	87.2
Banner Crop Lime (C-2775)	F 41.55	28.91	92.4	66.8	56.4
	G 38.26	26.94	98.8	92.2	87.2
Superior Agricultural Lime Hydrated (C-2921)	F 49.62	33.00	99.6	94.8	93.6
	G 48.00	33.00	100.0	99.0	---
Superior Agricultural Lime Hydrated (C-3109)	F 48.00	33.41	100.0	100.0	100.0
	G 48.00	33.00	99.5	87.5	82.0
Superior Agricultural Lime Hydrated (C-3113)	F 48.00	33.79	100.0	100.0	100.0
	G 48.00	33.00	99.5	87.5	82.0
THE OHIO HYDRATE & SUPPLY COMPANY Woodville, Ohio					
Ohio Agricultural Hydrated Lime (C-2657)	F 48.99	31.73	100.0	100.0	98.0
	G 48.00	31.70	-----	-----	-----
Ohio Agricultural Hydrated Lime (C-2681)	F 48.03	31.50	100.0	100.0	100.0
	G 48.00	31.70	-----	-----	-----
Ohio Agricultural Hydrated Lime (C-2704)	F 48.66	32.33	100.0	100.0	100.0
	G 48.00	31.70	-----	-----	-----
Ohio Agricultural Hydrated Lime (C-2778)	F 48.05	31.86	100.0	100.0	100.0
	G 48.00	31.70	-----	-----	-----

*Deficient

TABLE III--HYDRATED LIME --- LOW AND HIGH MAGNESIA

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	FINENESS		
			#20	#60	#100
	%	%	%	%	%
Ohio Agricultural Hydrated Lime (C-2898)	F	*47.20	32.42	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-2924)	F	48.94	32.78	100.0	100.0
	G	49.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-2925)	F	48.83	32.90	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-2976)	F	48.27	31.91	100.0	100.0
	G	48.00	31.70	97.0	94.0
Ohio Agricultural Hydrated Lime (C-2991)	F	48.16	31.85	100.0	100.0
	G	48.00	31.70	97.0	94.0
Ohio Agricultural Hydrated Lime (C-3047)	F	49.55	33.33	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-3051)	F	49.80	33.61	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-3058)	F	50.39	33.96	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-3117)	F	47.96	32.81	100.0	100.0
	G	48.00	31.70	-----	-----
Ohio Agricultural Hydrated Lime (C-3122)	F	48.43	32.79	100.0	100.0
	G	48.00	31.70	-----	-----
UNITED STATES GYPSUM COMPANY Chicago, Ill.					
U.S.G. Red Top Agricultural Hydrate Lime (C-2554)	F	48.33	30.16	100.0	98.0
	G	47.00	30.00	100.0	95.0
U.S.G. Red Top Agricultural Hydrate Lime (C-2661)	F	49.33	*29.68	100.0	100.0
	G	48.80	31.80	100.0	95.0
U.S.G. Red Top Agricultural Hydrate Lime (C-2847)	F	*47.18	*30.60	100.0	100.0
	G	48.80	31.80	100.0	95.0
WARNER COMPANY, Philadelphia, Pa. Warner Limoid (C-2561)					
	F	47.88	32.44	100.0	99.2
	G	46.50	31.00	100.0	97.0
Warner Limoid (C-2601)	F	46.07	32.20	100.0	99.2
	G	46.50	31.00	100.0	97.0
Warner Limoid (C-2678)	F	48.25	33.76	100.0	100.0
	G	46.50	31.00	100.0	96.0
Warner Limoid (C-3001)	F	47.88	31.85	100.0	97.0
	G	46.50	31.00	100.0	95.0
Warner Limoid (C-3131)	F	47.74	31.19	100.0	100.0
	G	46.50	31.00	100.0	97.0
THE WOODVILLE LIME PRODUCTS COMPANY Toledo, Ohio					
Blue Boy Klover Krop Hydrated Lime (C-2655)	F	47.22	*31.01	100.0	100.0
	G	46.87	33.98	100.0	98.0
Blue Boy Klover Krop Hydrated Lime (C-3139)	F	49.56	*32.94	100.0	100.0
	G	46.87	33.98	100.0	98.0
Tenlime Household Hydrated (C-2994)	F	47.71	*32.50	100.0	100.0
	G	46.87	33.98	100.0	100.0
Tenlime Household Hydrated (C-3127)	F	47.99	*32.74	100.0	100.0
	G	46.87	33.98	100.0	100.0
Average		48.17	32.01	-----	-----

*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE %	MAGNESIUM OXIDE %	OXIDES AS CARBONATES %	FINENESS		
				#20	#60	#100
<u>BURNED LIME</u>						
AMERICAN LIME & STONE COMPANY Bellefonte, Pa. Bell Mine Rotary Kiln Pulverized Lime (C-2651)	F 94.88 G 93.00	0.98 0.90	2.04 ----	100.0 100.0	100.0 100.0	100.0 99.9
Bell Mine Rotary Kiln Pulverized Lime (C-2679)	F *92.04 G 93.00	0.91 0.90	5.62 ----	100.0 100.0	100.0 100.0	98.0 99.9
BAKER BROTHERS, Muncy, Pa. Baker Brothers Lump Lime (C-2542)	F *75.33 G 80.00	*1.58 3.00	1.84 5.00	----	----	----
Baker Brothers Lump Lime (C-2609)	F 80.36 G 80.00	*0.89 3.00	2.69 5.00	----	----	----
BAKER & COURSON, Muncy, Pa. Baker & Courson's Lump Lime (C-2626)	F 88.55 G 78.00	1.65 1.00	4.00 ----	----	----	----
Baker & Courson's Lump Lime (C-2787)	F 90.27 G 80.00	3.11 *3.00	0.36 ----	----	----	----
Baker & Courson's Lump Lime (C-2891)	F 85.50 G 80.00	*2.00 3.00	2.36 ----	----	----	----
J. E. BAKER COMPANY, York, Pa. Jebco Ground Lime (C-2690)	F 90.48 G 88.00	*3.57 5.00	7.96 2.75	94.0 ----	72.0 ----	70.0 ----
BAKER STONE COMPANY, Bloomsburg, Pa. Baker's Ground Burned Agricultural Lime (C-2533)	F *77.99 G 86.18	1.93 1.81	6.55 ----	74.4 76.4	57.2 50.0	33.2 45.6
Baker's Ground Burned Agricultural Lime (C-2642)	F *68.93 G 86.18	1.88 1.81	20.63 ----	63.6 70.4	40.0 50.0	35.6 45.6
Baker's Ground Burned Agricultural Lime (C-2914)	F *73.00 G 74.41	1.17 1.59	13.08 10.05	84.8 63.6	76.4 47.2	73.6 44.8
S. T. BODINE, Montgomery, Pa. Lump Lime (C-2550)	F 75.55 G 70.00	5.53 3.00	6.52 ----	----	----	----
Lump Lime (C-2608)	F 88.88 G 70.00	*2.22 3.00	9.48 ----	----	----	----
Lump Lime (C-2817)	F 83.33 G 75.00	*0.83 2.00	2.31 9.00	----	----	----
Lump Lime (C-2895)	F 82.60 G 75.00	*1.35 2.00	5.08 9.00	----	----	----
LEWIS BUSS, Allenwood, Pa. Lump Lime (C-2818)	F *74.03 G 80.00	1.96 1.55	6.94 17.00	----	----	----
CHEMICAL LIME COMPANY, INC. Bellefonte, Pa. Pebble High Calcium Quick Lime (C-2873)	F 94.80 G 94.00	0.78 0.75	2.09 ----	----	----	----
WALTER EISWERT, Jersey Shore, Pa. Eiswert Ground Lime (C-2864)	F *69.46 G 75.00	6.24 2.00	13.35 ----	65.2 ----	58.0 ----	56.0 ----
Eiswert Lump Lime (C-2549)	F 80.66 G 82.00	2.05 2.00	2.73 2.00	----	----	----
Eiswert Lump Lime (C-2663)	F 86.66 G 72.00	1.51 2.00	8.28 3.00	----	----	----
Eiswert Lump Lime (C-2815)	F *71.90 G 75.00	3.41 2.00	12.71 3.00	----	----	----
Eiswert Lump Lime (C-2863)	F 81.47 G 75.00	8.96 2.00	3.95 3.00	----	----	----
CHARLES G. GABEL, Boyertown, Pa. Burned Lime (C-3173)	F 47.96 G -----	32.34 -----	20.32 -----	----	----	----
GROVER C. HENDERSON, Ligonier, Pa. Burnt Lime (C-2804)	F 62.50 G -----	1.02 ----	9.96 ----	81.6 ----	78.8 ----	78.0 ----
HARRY I. JOHNSTON, Ligonier, Pa. Burned Pulverized Lime (C-2962)	F *51.97 G 53.01	1.59 1.56	13.22 20.99	85.2 ----	73.8 ----	69.8 ----
KEYSER & BERG BROTHERS, Stahlstown, Pa. Burnt Lime (C-2803)	F 58.91 G -----	1.18 ----	2.51 ----	84.0 ----	76.8 ----	76.0 ----
KEYSTONE LIME COMPANY, Springs, Pa. Alfalfa Brand Granular Lime (C-3163)	F *67.38 G 70.00	*1.77 3.00	12.71 ----	49.2 ----	34.4 ----	32.4 ----

*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME		CALCIUM OXIDE	MAGNESIUM OXIDE	OXIDES AS CARBONATES	FINENESS		
					#20	#60	#100
		%	%	%	%	%	%
Lump Lime (C-3164)	F G	81.48 ----	4.13 ----	3.86 ----	----	----	----
HENRY KILGUS, Muncy, Pa. Muncy Lump Lime (C-2539)	F G	87.10 77.00	1.24 1.05	8.07 8.00	----	----	----
Muncy Lump Lime (C-2612)	F G	86.99 77.00	1.12 1.05	4.56 8.00	----	----	----
Muncy Lump Lime (C-2624)	F G	84.66 83.00	1.25 1.20	4.19 8.07	----	----	----
Muncy Lump Lime (C-2796)	F G	*73.92 83.00	1.07 1.20	12.55 5.00	----	----	----
Muncy Lump Lime (C-2867)	F G	89.40 83.00	0.97 1.20	2.54 8.07	----	----	----
ED KUNKLE, McGrann, Pa. Burned Lime (C-2723)	F G	65.36 ----	1.81 ----	4.67 ----	----	----	----
LYDA LIME COMPANY, Black Lick, Pa. Agricultural Lime Burned Pulverized (C-2714)F	G	41.31 40.04	6.94 7.12	19.13 24.80	84.0 72.8	61.2 47.6	55.2 39.2
Agricultural Lime Burned Pulverized (C-2772)F	G	*38.98	6.39	26.84	84.8	70.4	66.8
Agricultural Lime Burned Pulverized (C-2960)F	G	41.31 44.13	6.94 7.84	19.13 4.87	84.0 99.6	61.2 74.0	55.2 71.2
G	41.31	6.94	19.13	84.0	61.2	55.2	
NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Palmer 8ig Yield Ground Lime (C-2697)	F G	91.48 90.00	1.59 2.00	9.21 2.00	100.0 98.0	90.0 75.0	60.0 40.0
GEORGE S. NAUGLE, Ligonier, Pa. Burnt Lime (C-2802)	F G	62.50 ----	0.66 ----	7.94 ----	74.0 ----	71.2 ----	69.6 ----
NEW ENTERPRISE STONE & LIME COMPANY New Enterprise, Pa. Burned Pulverized Lime (C-2705)	F G	61.89 ----	4.66 ----	22.40 ----	80.0 ----	56.0 ----	50.0 ----
G. C. OVERDORF, Jersey Shore, Pa. Overdorf Ground Lime (C-2865)	F G	*63.51 65.85	*4.49 7.35	31.51 0.75	62.0 ----	54.4 ----	53.6 ----
Overdorf Lump Lime (C-2816)	F G	71.90 ----	2.61 ----	2.31 ----	----	----	----
Overdorf Lump Lime (C-2866)	F G	82.75 65.85	*3.07 7.35	11.90 0.75	----	----	----
L. W. OVERLY, Mt. Pleasant, Pa. Open Kiln Burnt Lime (C-2973)	F G	72.80 ----	4.82 ----	9.98 ----	94.8 ----	92.4 ----	92.0 ----
PINE CREEK LIME & STONE COMPANY Jersey Shore, Pa.							
Pine Creek Lump Lime (C-2548)	F G	86.21 78.94	*2.44 3.94	2.50 ----	----	----	----
Pine Creek Lump Lime (C-2590)	F G	83.69 80.00	2.53 2.50	4.60 ----	----	----	----
Pine Creek Lump Lime (C-2636)	F G	86.66 80.00	3.64 2.50	15.02 ----	----	----	----
Pine Creek Lump Lime (C-2740)	F G	84.60 80.00	2.50 2.50	9.01 4.00	----	----	----
Pine Creek Lump Lime (C-2812)	F G	*74.27 82.00	4.40 1.50	0.90 2.00	----	----	----
Pine Creek Lump Lime (C-2862)	F G	85.48 82.00	3.66 1.00	2.11 ----	----	----	----
Pine Creek Ground Burnt Lime (C-2741)	F G	*65.76 80.00	2.51 2.50	16.00 4.00	64.0 ----	47.6 ----	42.4 ----
Pine Creek Ground Burnt Lime (C-2813)	F G	73.58 82.00	3.49 1.50	6.78 2.00	63.2 43.0	57.2 29.0	44.8 24.0
Pine Creek Ground Burnt Lime (C-2861)	F G	*71.74 82.00	4.16 1.00	4.36 2.00	64.0 ----	50.0 ----	47.6 ----
C. WILBERT REEDER, Muncy, Pa. Chippewa Lump Lime (C-2540)	F G	88.88 68.00	1.61 1.00	5.21 3.00	----	----	----
Chippewa Lump Lime (C-2611)	F G	70.48 68.00	1.05 1.00	7.82 3.00	----	----	----
Chippewa Lump Lime (C-2625)	F G	73.21 68.00	1.19 1.00	6.44 3.00	----	----	----
Chippewa Lump Lime (C-2797)	F G	68.10 68.00	1.12 1.00	6.76 3.00	----	----	----
Chippewa Lump Lime (C-2868)	F G	70.76 68.00	1.24 1.00	4.73 3.00	----	----	----
STEACY & WILTON CO., Wrightsville, Pa. Sterling Lump Agricultural Lime (C-2686)	F G	82.32 ----	12.17 ----	2.86 ----	----	----	----
Sterling Pulverized Burned Lime (C-2685)	F G	*78.65 90.00	10.71 2.00 to 4.00	3.13 3.00	74.8 71.0	52.0 46.0	50.0 39.0

*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE	MAGNESIUM OXIDE	OXIDES A. CARBONATES	FINENESS		
				#20	#60	#100
	%	%	%	%	%	%
SAM G. TATE, Salona, Pa. Tate's Lump Lime (C-2551)	F G	89.77 80.00	3.04 2.00	3.12 5.00	----	----
Tate's Lump Lime (C-2598)	F G	90.21 80.00	2.41 2.00	1.55 5.00	----	----
Tate's Lump Lime (C-2742)	F G	88.30 80.00	2.01 2.00	5.22 5.00	----	----
Tate's Lump Lime (C-2819)	F G	86.46 80.00	2.07 2.00	1.83 5.00	----	----
Tate's Lump Lime (C-2893)	F G	81.30 80.00	3.37 2.00	2.56 5.00	----	----
THOMASVILLE STONE & LIME COMPANY Thomasville, Pa.						
Thomasville Pulverized Quicklime (C-2694)	F G	*88.24 93.00	3.19 2.00	2.11 2.75	98.0 90.0	72.0 66.0
F. S. & ROBERT R. TRUXAL Greensburg, Pa.						
Truxal's Lime Burned & Crushed (C-2970)	F G	64.06 ----	1.88 ----	6.56 ----	96.8 ----	91.2 ----
MRS. ALICE TULE, Muncy, Pa. Lime Bluff Lump Lime (C-2541)	F G	87.77 76.00	1.16 1.00	5.14 4.64	----	----
Lime Bluff Lump Lime (C-2610)	F G	89.21 76.00	1.06 1.00	10.62 ----	----	----
Lime Bluff Lump Lime (C-2637)	F G	85.45 76.00	1.26 1.00	2.31 ----	----	----
Lime Bluff Lump Lime (C-2795)	F G	85.00 76.00	1.03 1.20	2.95 ----	----	----
Lime Bluff Lump Lime (C-2892)	F G	89.88 76.00	2.06 1.20	1.70 ----	----	----
WEST BRANCH LIME CO., Williamsport, Pa. Clover Leaf Ground Lime (C-2544)	F G	*68.88 76.00	1.94 2.00	36.11 9.00	78.8 90.0	56.4 65.0
Clover Leaf Ground Lime (C-2592)	F G	83.43 76.00	2.01 2.00	4.64 9.00	88.0 95.0	65.6 70.0
Clover Leaf Ground Lime (C-2633)	F G	*74.18 82.00	1.60 2.00	5.22 5.00	73.6 84.0	54.0 62.0
Clover Leaf Ground Lime (C-2737)	F G	*75.07 82.00	1.88 2.00	15.77 5.00	84.0 85.2	62.0 55.6
Clover Leaf Ground Lime (C-2799)	F G	78.62 78.00	1.67 2.00	7.38 4.00	94.0 78.0	86.8 56.0
Clover Leaf Ground Lime (C-2845)	F G	*73.36 76.00	2.82 2.00	19.31 3.00	88.4 78.0	68.4 56.0
Clover Leaf Lump Lime (C-2543)	F G	85.10 76.00	1.76 2.00	4.51 3.00	----	----
Clover Leaf Lump Lime (C-2594)	F G	82.81 80.00	2.08 2.00	11.83 2.00	----	----
Clover Leaf Lump Lime (C-2632)	F G	*73.06 82.00	1.54 2.00	6.81 5.00	----	----
Clover Leaf Lump Lime (C-2738)	F G	82.60 82.00	1.98 2.00	15.30 5.00	----	----
Clover Leaf Lump Lime (C-2798)	F G	86.24 78.00	1.88 2.00	5.85 4.00	----	----
Clover Leaf Lump Lime (C-2844)	F G	88.94 76.00	*1.01 2.00	6.55 4.00	----	----
J. R. ZEEK, Port Matilda, Pa. Run of Kiln Lime (C-2890)	F G	95.31 ----	0.82 ----	0.84 ----	----	----
Average		77.80	2.98	----	----	----
<u>MISCELLANEOUS</u>						
AMERICAN LIME & STONE COMPANY Bellefonte, Pa.						
Forkings (C-2883)	F G	81.96 ----	1.93 ----	1.70 ----	----	----
Tailings (C-2881)	F G	73.06 ----	1.31 ----	8.82 ----	88.4 ----	68.8 60.0
THE PHILIP CAREY MANUFACTURING CO. Plymouth Meeting, Pa.						
By-Product Lime (C-2710)	F G	40.60 ----	29.04 ----	4.83 ----	----	----
NORTH AMERICAN CEMENT CORP. Baltimore, Md.						
Berkley Hydra-Calcite (C-2619)	F G	67.91 60.00	2.23 2.00	----	100.0 100.0	100.0 90.0
Berkley Hydra-Calcite (C-2629)	F G	67.13 60.00	2.17 2.00	----	100.0 100.0	94.0 90.0
THOMASVILLE STONE & LIME COMPANY Thomasville, Pa.						
Thomasville Bulk Forkings (C-2695)	F G	84.55 52.50	2.64 2.17	4.76 ----	----	----

*Deficient

TABLE IV--BURNED LIME AND MISCELLANEOUS

MANUFACTURER AND BRAND NAME	CALCIUM OXIDE %	MAGNESIUM OXIDE %	OXIDES AS CARBONATES %	FINENESS		
				#20	#60	#100
WHITEROCK QUARRIES, INC., Bellefonte, Pa. Forkings (C-2888)	F 90.56 G 85.00 to 95.00	0.72 -----	1.43 -----	-----	-----	-----
PITTSBURGH LIMESTONE CORPORATION Pittsburgh, Pa. Limestone Screenings (Annandale Mine) (C-2733)	F 49.04 G 47.00	0.76 0.50	-----	86.0 60.0	38.0 20.0	30.0 10.0
Limestone Screenings (Annandale Mine) (C-2734)	F 48.81 G 47.00	0.73 0.50	-----	86.8 60.0	36.8 20.0	31.2 10.0
Limestone Screenings (Buffalo Creek Mine) (C-2718)	F 46.69 G 47.00	0.82 0.50	-----	74.4 60.0	36.0 20.0	29.6 10.0
Limestone Screenings (Buffalo Creek Mine) (C-2955)	F 48.61 G 45.50	0.76 0.50	-----	68.8 70.0	31.2 33.0	24.4 25.0
Limestone Screenings (Kaylor Mine) (C-2717)	F 52.83 G 47.00	0.56 0.50	-----	69.8 60.0	32.8 20.0	26.5 10.0
Limestone Screenings (Kaylor Mine) (C-2948)	F 52.08 G 51.50	0.64 0.50	-----	74.4 70.0	35.0 33.0	30.0 25.0

